

## **Color centers transient absorption and ultra-short pulse lasing from LiLu0.7Y0.3F4:Ce3+ active medium**

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### **Abstract**

© OSA 2015. We have obtained the single pulse laser oscillation with  $400\pm 10$  ps pulse duration at 311 nm from LiLu0.7Y0.3F4:Ce3+ crystal due to passive Q-switch by means of pump induced color centers absorption. In this work we discuss the role of intrinsic transient color centers on losses dynamics.

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